United States Environmental Protection Agency

Region 10 Emergency Response Unit

POLLUTION REPORT

I. HEADING

Date: February 22, 2002
Subject: Hermiston Lab Site
From: Mike Sibley, OSC, USEPA, Region 10, Emergency Response Unit
Tel: Office (206) 553-1886
TO: See Distribution List on last page

POLREP No.5 (Final)

II. BACKGROUND

Site ID: SSID # 108M
Delivery Order No: 81-10-19
Response Authority: CERCLA
FPN No: NA
NPL Status: NA
State Notification: Oregon Department of Environmental Quality
Action Memo Status: July 12, 2001
Removal Start Date: August 27, 2001
Completion Date: February 8, 2002
Site Web Page: http://yosemite.epa.gov/r10/cleanup.nsf/sites/hermiston

III. SITE INFORMATION

A. Incident Category

Removal Action.

B. Site Description

1. Site Location

See Polrep #1.

C. Assessment/Analytical Results

After reviewing the chemical analyses of the samples collected at the Hermiston Lab Site. The RP contractor ITC developed a removal action plan to address contamination found in concentrations exceeding EPA Region 9 preliminary remediation goals (PRG) relevant action levels. Summaries of the analytical data are located in the tables 1 & 2 (see attached spreadsheet file).

ITC collected wipe samples from the walls and floor of the laboratory and the floor of the storage room adjacent to the door from the laboratory. An additional wipe sample was collected from the exterior of the building, below the location where the exhaust from vent hood exited the building. The wipe sampling data were compared to the standard developed by the U.S. Environmental Protection Agency (EPA) (PRG) and the U.S. Department of Housing and Urban Development for lead dust on residential floors (40 micrograms per square foot [mg/ft^2]). Concentrations inside the building exceeded the standard. The range of lead concentrations found on the walls was 59B2740 mg/ft^2, and the concentrations found on the floors was 2790 and 3370 mg/ft^2. The concentration outside the building was (41 mg/ft^2).

The approved remedy for the building is to decontaminate the interior using the two-step decontamination procedure recommended by the EPA. Dust will be removed from the three rooms formerly occupied by Capmartin Mining Lab using a vacuum cleaner equipped with a high efficiency particulate air (HEPA) filter. The second step will involve washing the walls, ceiling, and floor of the laboratory and the floor of the storage room adjacent to the door to the laboratory with a solution of trisodium phosphate, or similar, detergent. The surfaces will be rinsed and the wash and rinse water will be collected for disposal at a wastewater treatment plant or other permitted waste disposal facility. The lead dust collected in the HEPA filter will be disposed of at a permitted disposal facility.

Analytical data from the soil samples collected by ITC were compared to EPA Region 9 preliminary remediation goals (PRG) for industrial soils. Concentrations of the Resource Conservation and Recovery Act metals were at or below the PRGs in all samples except for one sample where the concentration of arsenic was above the standard (3 milligrams per kilogram [mg/Kg] as compared to 2.7). A blue crust covered approximately 4 square feet of the soil surface at the location where this soil sample was collected. The deeper sample collected at this location contained 1.5 mg/Kg of arsenic. The proposed remedy for soil is to remove the surface material, approximately the top 4 inches of soil, for off-site disposal. Based on the measured concentrations of metals, including arsenic, the soil is nonhazardous.

IV. Response Information

A. Situation

1. Current Situation

February 6, 2002 (Wednesday)
Re-mob on site: IT group (2)
Weather: Partly cloudy with a high of 48° F expected.

Activities Performed by IT personnel included:

Vacuumed the laboratory and the storage room per the removal action plan.

Removed contaminated soil and placed it in 5-gallon buckets for disposal as a nonhazardous material.

February 7, 2002 (Thursday)
On site: IT group (2)
Weather: Sunny with a high of 47° F expected.

Activities Performed by IT personnel included:

Washed and rinsed the walls, floor, and ceiling of the laboratory and affected portion of the floor in the storage room per the Removal Action Plan.

Vacuumed the office using HEPA vac.

Collected six wipe samples to confirm effectiveness of the decontamination.

Collected one sample of the wash/rinse water for waste characterization.

Labeled and secured one 55-gallon drum of wash/rinse water and one 5-gallon bucket of HEPA filters and used PPE to be picked up by Spencer Environmental for disposal.

Completed field work and demobilized from the site.

February 8, 2002 (Friday)
On Site: EPA (1), RP (2)

Weather: Sunny & windy with high of 46° F expected.

Completed final site walk through with RP (Mr & Mrs Kik). The only activities remaining to complete within the week are:

- Spencer Environmental to pick up wash/rinse water, HEPA filters/used PPE, and computer monitors for disposal.
- Remaining electronic equipment and scrap metal will be delivered to Ross Salvage for recycling.

2. Removal Actions to Date

(See Current situation above).

3. Enforcement

Enforcement actions are being reviewed at this time by EPA.

B. Planned Removal Activities

None.

C. Next Steps

None.

V. Cost Information

Estimated costs are summarized below:

	Established Ceiling	Estimated Costs (as of 02/22/02)
EPA	$ 2,500	$ 600
START	$ 29,600	$ 17,500
ERRS	$ 35,000	$ 13,038
Total	$ 67,100	$31,138

Note: The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

VI Disposition of Wastes

- Spencer Environmental to pick up wash/rinse water, HEPA filters/used PPE, and computer monitors for disposal.

- Remaining electronic equipment and scrap metal will be delivered to Ross Salvage for recycling.

VII Distribution

To:

Terry Eby, EPA Headquarters

Chris Field, Mary Matthews, OSCs, EPA Region 10 Emergency Response Unit

Oregon Department of Environmental Quality, Attention: Chuck Donaldson, Emergency Response
EPA Oregon Office, Attention: Dan Opalski
EPA Oregon Office, Attention: Dan Heister

VII Status

Cleanup is complete.

Sample Number	Sample	Constituent	arsenic		barium	cadmium		chromium	lead		mercury	
		PRG* (mg/Kg)	2.7		100,000	810		450	750		610	
HLS-110901-08	SS-1S		1.3		71	1	U	5	20.2	U	0.02	U
HLS-110901-09	SS-2S		1.4		81.5	1	U	6.3	20.1	U	0.02	U
HLS-110901-10	SS-3S		2		66.3	1	U	6.5	20.6	U	0.05	
HLS-110901-11	SS-4S		2.7		87.5	1	U	7.4	20.1	U	0.02	U
HLS-110901-12	SS-5S		1.3		83.1	1.4		7.7	37.8		0.02	
HLS-110901-13	SS-6S		1.4		85.1	1	U	6.8	20	U	0.02	U
HLS-110901-14	SS-6S (dup)		2		86	1	U	7.8	20.7	U	0.02	U
HLS-110901-15	SS-7S		2.1		76.6	1	U	7.1	20.3	U	0.02	U
HLS-110901-16	SS-7D		2.1		66.6	1.1	U	6.3	21	U	0.02	U
HLS-110901-17	SS-8S		2.1		65.9	1	U	7.9	20.5	U	0.02	U
HLS-110901-18	SS-8D		2		76.3	1	U	6.6	20.5	U	0.02	U
HLS-110901-19	SS-9S		2		74.1	1	U	5.5	19.5	U	0.17	
HLS-110901-20	SS-9D		2.5		80.7	1	U	6.78	19.7	U	0.19	
HLS-110901-21	SS-9D (dup)		2.2		78.6	1	U	6.5	20.6	U	0.06	
HLS-110901-22	SS-10S		3		101	1	U	6.2	20.3	U	0.02	U
HLS-110901-23	SS-10D		1.5		83.1	1	U	6.1	20.5	U	0.02	U
HLS-110901-24	SS-11S		1.2	U	73.5	1.1	U	6.7	22.1	U	0.02	U
HLS-110901-25	SS-11D		2.5		88.9	1.1	U	7.3	22	U	0.02	U

Note:

* EPA Region 9 Preliminary Remediation Goals (PRG) for industrial soils

selenium		silver	
10,000		10,000	
1	U	2	U
1	U	2	U
1	U	2.1	U
1	U	2	U
1	U	2.1	U
1	U	2	U
1.1	U	2.1	U
1	U	2	U
1	U	2.1	U
1	U	2.1	U
1	U	2.1	U
1	U	248	
1	U	284	
1.1	U	175	
1	U	2	U
1	U	2.1	U
1.2	U	2.2	U
1.1	U	2.2	U